

Chapter 1 About IUMRS

1.1 Introduction of IUMRS by IUMRS Founding President Prof. R. P. H Chang

It is a great honor for me to write this introduction to the document commemorating the 30th Anniversary of the founding of the International Union of Materials Research Societies (IUMRS). IUMRS was founded in 1991 as a formal organization representing a number of international materials research societies but it has its origins further back in time in a committee operating in 1984/5. An excellent account of the history of IUMRS is given below by John Baglin and Paul Siffert.



Prof. R. P. H Chang
Northwestern University, USA

The “Mission” of the IUMRS is to serve and lead, through research and education, the global materials community in support of a sustainable world by processing and regeneration new materials for all citizens.

The founding members of IUMRS were societies from the United States (MRS), Europe (E-MRS), MRS-Japan, Chinese MRS, Mexican-MRS, MRS-Taiwan, MRS-India and Australian-MRS. These were joined later by MRS-Russia, MRS-Singapore, MRS-Korea, MRS-Brazil, MRS-Argentina, African-MRS and, most recently MRS Indonesia, and MRS-Thailand. These societies have contributed to this document on their histories and planed for the future, with many pictures taken during meetings hosted by them.

There are number of people who deserve special recognition for their leadership in the early history of IUMRS. They include Woody White, Elton Kaufmann, Masao Doyama, Paul Siffert, John Balance, John Baglin, and many others. In the mid to late eighties, MRS played a key role in hosting annual meetings in Boston to discuss and debate how the to-be-established Union should function. It was finally decided that all adhering bodies would function independently but work closely to promote the mission of providing services and leadership to the global materials community both in research and education.

To bring the global materials community together, it was decided that a series of International Conferences on Advanced Materials (ICAM) and Electronic Materials (ICEM) was to be launched. This was done under the leadership of Masao Doyama in Japan with the support of the MRS and E-MRS starting in 1988. The success of these meeting further propelled the accelerated formation of the IUMRS in 1991.

Since then, other IUMRS meetings such as International Conference in Asia (ICA), and more recently Materials World Summit have been launched with great success. These meetings, in addition to the annual meetings of each individual adhering body, have increased significantly the communication in materials research and education around the world. In 2005, under the leadership of IUMRS president, Zhou Lian, it successfully applied to the International Council for Science (ICSU) for membership as one of the only 29 members.



In parallel to the development of strong communications among materials researchers worldwide, members of the adhering bodies of the IUMRS have also been working with their respective funding agencies to launch multi-lateral research funding initiatives. During a period of 15 years, the National Science Foundation in the US and its counterparts around the world have signed agreements to support joint research programs among materials researchers from all parts of the world. This was done under the Materials World Network Program started in 1995. Through the support of this Program, many international workshops were held and they have also resulted in the establishment of new societies, such as the Brazilian MRS and the African MRS.

Addressing the Future

In retrospect, IUMRS has already fulfilled a large part of its original vision of services to the world materials community but where will it go from here and what are its responsibilities? As we move into the 21st century, we see that the world has greatly changed. Within this century, the world population will reach nearly nine billion. In addition, it is predicted that the supply of oil will peak in about thirty years and then decrease rapidly thereafter. Over the next couple of centuries, it is anticipated that coal will still provide at least one half of the world's energy. Unless new technology is developed, the current rate of coal burning may accelerate global warming and climate change. To provide enough energy, food, water, while protecting the health of all citizens, is such a big challenge that requires the co-operation and collaboration of all nations. Materials research must play a very strategic central role in solving these big global problems. IUMRS is well positioned to help and lead in addressing such challenges. During the past couple of years the General Assembly (GA) of the IUMRS has had many discussions on future initiatives that the IUMRS needs to launch in collaboration with other Unions and members of the ICSU. It is pretty clear that global problems need global resources, talents, expertise and above all co-operation to solve.

As of 2011, the immediate plan of the IUMRS is to launch a Global Materials Network (GMN). The GMN has three main strands:

1. A Network for young materials researchers world-wide through interaction both in real and cyber-space. Young researchers need to be empowered to take lead to solve global problems facing their future.

2. IUMRS, working with other Unions of the ICSU, will establish a Materials Council to develop policies for energy, environment, and education.

3. Building on the success of the Materials World Network, IUMRS will further lead the global efforts in research and education relating to energy, environment, health, security and sustainability.

To launch the first initiative, an IUMRS - International Conference of Young Researchers on Advanced Materials was organized by the Materials Research Society of Singapore, 1-6 July, 2012, in Singapore. The related cyber-infrastructure has been under development. The second initiative is being planned.

The purpose of this Booklet is to commemorate the 30th anniversary of the founding of IUMRS and to give the presidents of the Adhering Bodies an opportunity to tell the history of their societies and describe their leadership and participation in the IUMRS.

I want to thank Mike Driver who has overseen the production of part of this document, and the staff of MRS, particularly Betsy Fleischer and Mary Kaufold for providing some of the contents.

I believe the IUMRS is truly a unique world materials organization which highly values the leadership and contribution of its members. It is now positioned to further strengthen its collective power to help provide solutions to the greatest global problems facing all mankind. IUMRS welcomes your participation in all of its activities.

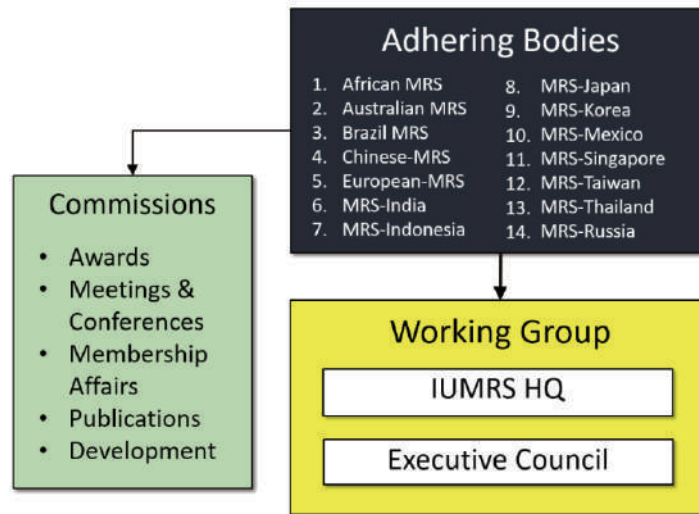
R. P. H. (Bob) Chang
IUMRS Founding President
August 2019

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<https://www.mccormick.northwestern.edu/research-faculty/directory/profiles/chang-robert.html>

1.2 Structure of IUMRS

IUMRS Organization Chart



1.3 Recent IUMRS officers

2019- 2020:

1. Yafang Han, President 2019-2020, from Chinese-MRS
2. Soo Wohn Lee, Immediate Past President 2019-2020, from MRS-Korea
3. Rodrigo Martins, 1st Vice President 2019-2020, from European-MRS
4. Yuen Peng Feng, 2nd Vice President 2020-2021, from MRS-Singapore
5. Jim S. Williams, Secretary 2019-2020, From Australian-MRS
6. Naoki Kishimoto, Treasurer 2020-2021, from MRS-Japan

2021- 2022:

1. Rodrigo Martins, President 2021-2022, from European-MRS
2. Yafang Han, Immediate Past President 2021-2022, from Chinese-MRS
3. Osvaldo N. Oliveira, 1st Vice President 2021-2022, from MRS-Brazil
4. Yuen Peng Feng, 2nd Vice President 2020-2021, from MRS-Singapore
5. Jim S. Williams, Secretary 2021-2022, from Australian-MRS
6. Naoki Kishimoto, Treasurer 2020-2021, from MRS-Japan



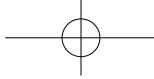
1.4 IUMRS Commission members

2019- 2020

Commission	Members	Role	Emails
Awards (6)	R.P.H. (Bob) Chang	Chair	rphchang@gmail.com
	Rodrigo Martins (E-MRS)	IUMRS Global Leader/Service Award	rm@uninova.pt
	B.V.R. Chowdari (MRS-S)	IUMRS-MRSs Young Researcher Award	chowdari@mrs.org.sg
	Nobuhiro Matsushita (MRS-J)	IUMRS Somiya Award	
	Sharath Sriram (A-MRS)	member	sharath.sriram@rmit.edu.au
	Jian Ji (C-MRS)	member	jjjian@zju.edu.cn
Meetings (7)	Oswaldo N. Oliveira (MRS-B)	Chair	chu@ifsc.usp.br
	Naoki Kishimoto (MRS-J)	member	kishin@fa3.so-net.ne.jp
	George Kirakidis (E-MRS)	member	kiriakid@iesl.forth.gr
	Evan Williams (MRS-S)	member	williamse@imre.a-star.edu.sg
	Soo Wahn Lee (MRS-K)	Ex-official member	ecomaterials@sunmoon.ac.kr
	Jim Williams (A-MRS)	EC member as Secretary	Jim.Williams@anu.edu.au
	Paul Horng (MRS-T)	member	jlhorng@itri.org.tw
Publications (6)	Ying Wu (C-MRS)	Chair	wuying@atmcn.com
	Yafang Han (C-MRS)	Ex-official member	yfhan@buaa.edu.cn
	Duan Weng (C-MRS)	member	duanweng@tsinghua.edu.cn
	Wuzong Zhou (UK)	member	wzhou@st-andrews.ac.uk
	George Zheng Chen(UK)	member	George.Chen@nottingham.ac.uk
	Chengtie Wu (C-MRS)	member	chengtiewu@mail.sic.ac.cn
Development (10)	Tao Deng (C-MRS)	Chair	dengtao@sjtu.edu.cn
	Peter Wellmann (E-MRS)	Co-chair	peter.wellmann@fau.de
	Byungha Shin(MRS-K)	member	byungha@kaist.ac.kr
	Giovanni Marletta (E-MRS)	member	gmarletta@unict.it
	Elton N. Kaufmann (USA)	member	eltonk@anl.gov
	Leticia Torres -Martinez (MRS-M)	member	lettorresg@yahoo.com
	Tsong-Pyng Perng (MRS-T)	member	tpperng@mx.nthu.edu.tw
	Yudi Darma (MRS-Ina)	member	yudi@fi.itb.ac.id
	Tim White (MRS-S)	member	tjwhite@ntu.edu.sg
	P. S. Anil Kumar (MRS-I)	member	anil@physics.iisc.ernet.in
Membership (8)	Yuan Ping Feng (MRS-S)	Chair	phyfyp@nus.edu.sg
	John Baglin (USA)	member	baglin@us.ibm.com
	Chennupati Jagadish (A-MRS)	member	Chennupati.Jagadish@anu.edu.au
	Do Kyun Kwon (MRS-K)	member	dkwon@kau.ac.kr
	Ian W. Boyd (E-MRS)	member	Ian.Boyd@brunel.ac.uk
	Santi Maensiri (MRS-Thai)	member	santimaensiri@g.sut.ac.th
	T. T. Song (MRS-T)	member	TTSONG@itri.org.tw
	Ziqiang Dong (C-MRS)	member	zqdong@shu.edu.cn

(2021-)

Commission	Members	Role	email
Awards (6)	Tim White	Chair, and Young Researcher Award	tjwhite@ntu.edu.sg
	Rodrigo Martins (E-MRS)	IUMRS President and Global Leader Award	rm@uninova.pt
	Monica Cotta (MRS-B)	member (F)	monica@ifi.unicamp.br
	Nobuhiro MATSUSHITA(MRS-J)	IUMRS Somiya Award	Need to check status and email address
	Sharath Sriram (A-MRS)	member and young researcher	sharath.sriram@rmit.edu.au
	Jian Ji (C-MRS)	member	jjjian@zju.edu.cn
Meetings (9)	Soo Wahn Lee (MRS-K)	Chair	ecomaterials@sunmoon.ac.kr
	Samuel Chigome(African MRS)	member and President of African MRS	SChigome@bitri.co.bw
	Benjamin Agyei-Tuffour (African MRS)	member and young researcher	bagyeituffour@gmail.com
	Sanjay Mathur (Europe)	member	sanjay.mathur@uni-koeln.de
	Claudia Gutierrez Wing (MRS-M)	member and past President of MRS-M (F)	claudia.gutierrez@inin.gob.mx
	Evyvy Kartini (MRS-Ina)	member and President of MRS-Ina (F)	evvy.kartini@gmail.com
	Ieda Santos (MRS-B)	member (F)	ieda@quimica.ufp.br
	Saskia Schimmel (E-MRS)	member and young researcher (F)	sas.schimmel@imass.nagoya-u.ac.jp
	Paul Horng (MRS-T)	member and former IUMRS Treasurer	jlhorng@itri.org.tw
Publications (6)	Ying Wu (C-MRS)	Co-chair	wuying@atmen.com
	Yafang Han (C-MRS)	Co-chair and IUMRS past President	yfhan@buaa.edu.cn
	Xiumei Wang (C-MRS)	member and young researcher (F)	xiumeiwan@tsinghua.edu.cn
	Wuzong Zhou (UK)	member	wzhou@st-andrews.ac.uk
	George Zheng Chen (UK)	member	George.Chen@nottingham.ac.uk
	Chengtie Wu (C-MRS)	member	chengtiewu@mail.sic.ac.cn
Development (11)	Tao Deng (C-MRS)	Co-chair	dengtao@sjtu.edu.cn
	Peter Wellmann (E-MRS)	Co-chair	peter.wellmann@fau.de
	Byungha Shin (MRS-K)	member	byungha@kaist.ac.kr
	Giovanni Marletta (E-MRS)	member	gmarletta@unict.it
	Sean Hearne (USA)	member and past President of MRS	hearnesj@ornl.gov
	Leticia Torres-Martinez (MRS-M)	member and past President of MRS-M (F)	lettorresg@yahoo.com
	Tsong-Pyng Perng(MRS-T)	member	tpperng@mx.nthu.edu.tw
	Giuseppina Padeletti (E-MRS)	member (F)	gpadeletti@gmail.com
	Yudi Darma (MRS-Ina)	member	yudi@fi.itb.ac.id
	Chennupati Jagadish(A-MRS)	member and past President of (A-MRS)	Chennupati.Jagadish@anu.edu.au
P. S. Anil Kumar (MRS-I)	member and Secretary of MRS-I	anil@physics.iisc.ernet.in	
Membership (8)	Yuan Ping Feng (MRS-S)	Chair and IUMRS 2 nd VP	phyfyp@nus.edu.sg
	John Baglin (USA)	member and ISC liaison officer	baglin@us.ibm.com
	Joanne Etheridge (A-MRS)	member and President of A-MRS (F)	joanne.etheridge@monash.edu
	Do Kyun Kwon (MRS-K)	member	dkwon@kau.ac.kr
	Ian W. Boyd (E-MRS)	member	Ian.Boyd@brunel.ac.uk
	Santi Maensiri (MRS-Thai)	member and President of MRS-Thai	santimaensiri@g.sut.ac.th
	T. T. Song (MRS-T)	member	TTSONG@itri.org.tw
	Ziqiang Dong (C-MRS)	member	zqdong@shu.edu.cn



International Union of
Materials Research Society (IUMRS)

1.5 Headquarter office location

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2013-2018: 2220 Campus Drive, Evanston, Illinois, 60208, USA

2019-2020: 62 Zizhuyuan Road, Haidian District, Beijing 100048 China

2021- : School of Materials Science & Engineering, 50 Nanyang Avenue, Nanyang Technological University, BLKN4.1, #01-02a, Singapore 639798